

Remarks

Applicant has added no new matter with the above new claims, as the content is within the specification as filed, including the claims as filed. The above amendments are intended to provide a generic claim for the purpose of examination, as requested within the Office Action.

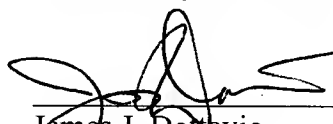
Restriction Requirement

In response to the restriction requirement, applicant hereby elects the first invention, including new independent claim 33 (generic) to replace original claims 1 and 13, indicated to be unique species, as well as claims 2-12 and 14-25 and new dependent claims 34 and 35. New claim 33 is believed to be generic, and the remaining claims are believed to be included within its species.

The election requirement is hereby believed to have been overcome. Applicant requests entry of the above amendment and consideration of the remaining claims.

If any fees are required pertaining to this response Applicant requests that they be charged to Deposit Account No. 50-0568.

Respectfully submitted,



James J. Dottavio
Reg. No. 40,360

Date: 10-31-03
2790 Columbus Road, Route 16
Building 11
Granville, OH 43023-1200
Phone: (740) 321-7167
Fax: (740) 321-4475

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims

1. (Canceled)
2. (currently amended) The apparatus of claim [1] 33, wherein said reinforcement applicator mechanism comprises a chopper for applying fibrous reinforcement.
3. (currently amended) The apparatus of claim [1] 33, wherein said upper movable surface is defined by a continuous loop of individual links.
4. (original) The apparatus of claim 3, wherein said links are elongate in width and connect to adjacent links along their front and rear edges.
5. (original) The apparatus of claim 4, wherein said apparatus further comprises a rail member positioned below said links defining a reference surface, and said links have a lower foot portion which registers with said links to define a horizontal plane, on said upper movable surface.
6. (original) The apparatus of claim 5, wherein said foot portion has a wear bar comprised of a low friction surface which slides relative to said reference surface.
7. (currently amended) The apparatus of claim [1] 33, wherein said drawing mechanism is a pressure application mechanism.
8. (currently amended) The apparatus of claim [3] 7, wherein said pressure mechanism is comprised of a second continuous loop of individual links, positioned in a spaced apart position from said first continuous loop.
9. (currently amended) The apparatus of claim [1] 33, wherein said sheet is comprised of a roll of sheet material of high tensile strength.

10. (original) The apparatus of claim 9, further comprising a take up roller to roll up said sheet material.
11. (original) The apparatus of claim 10, further comprising a roller table adjacent said take up roller, whereby finished fiberglass-reinforced sheet may be continuously fed onto said roller table.
12. (original) The apparatus of claim 11, wherein said reinforcement applicator mechanism comprises a chopper for applying fibrous reinforcement.
13. (canceled)
14. (currently amended) The apparatus of claim [13] 36, wherein said automatic roller mechanism is comprised of at least one roller which is driven in a continuous loop in a direction transverse to said longitudinal direction.
15. (original) The apparatus of claim 14, wherein said mold surface is movable in said longitudinal direction.
16. (original) The apparatus of claim 15, wherein said roller mechanism is profiled to move said at least one roller in a direction, such that the roller has a transverse velocity component and a longitudinal velocity component, whereby the longitudinal velocity component is equal to a longitudinal velocity of the moving mold surface.
17. (original) The apparatus of claim 16, wherein said roller mechanism is comprised of a driven chain loop guided around a chain guide, and said roller is attached to and driven by chain loop.
18. (original) The apparatus of claim 17, wherein said chain guide is movable to various angles to vary the angle of the chain guide relative to the longitudinal direction.
19. (original) The apparatus of claim 17, wherein a plane of said chain guide is tipped relative to a plane of said mold surface.

20. (original) The apparatus of claim 19, further comprising a plurality of rollers attached to and driven by said chain loop.
21. (original) The apparatus of claim 16, wherein said movable mold surface is defined by a roll of film together with a feed mechanism to feed said film at a first end, and a take up roller at a second end.
22. (original) The apparatus of claim 21, further comprising a movable support surface positioned beneath said movable mold surface.
23. (original) The apparatus of claim 22, wherein said movable mold surface and said movable support surface are moved together at substantially the same speeds.
24. (original) The apparatus of claim 23, wherein said movable support surface is defined by a continuous loop of individual links.
25. (original) The apparatus of claim 24, wherein said apparatus further comprises a rail member positioned below said links defining a reference surface, and said links have a lower foot portion which registers with said links to define a horizontal plane.
26. (Canceled)
27. (Canceled)
28. (Canceled)
29. (Canceled)
30. (Canceled)
31. (Canceled)
32. (Canceled)
33. (new) An apparatus for manufacturing fiber-reinforced sheet, comprising:
 a continuous mold surface being arranged in a longitudinal manner, onto which
the fiber-reinforced sheet may be formed;
 a spray mechanism to spray a first outer coat of material onto said mold surface;

at least one dispensing mechanism to dispense resin over said first outer coat;
at least one applicator mechanism to apply fiber strands over said first outer coat;
and
a roller mechanism for rolling said fiber strands and said resin.

34. (new) An apparatus according to claim 33, wherein said continuous mold surface comprises:

an upper movable surface being arranged in a longitudinal manner; and
a feed mechanism to continuously feed sheet onto said upper movable surface.

35. (new) An apparatus according to claim 34, further comprising:

a loading area whereby sheet panels may be positioned over said rolled fibers and resin; and

a mechanism to draw said resin into said sheet panels to form a rigid composite material.

36. (new) An apparatus according to claim 33, wherein said roller mechanism comprises
an automatic roller mechanism which performs transverse rolling patterns across said mold surface.